

ABSTRACT OF THE DISCLOSURE

A PWM control includes a first PWM control and a second PWM control. In the first PWM control, a first power supply terminal of a first coil is kept non-switched under being connected to a first pole of a direct current power source, and a second power supply terminal of a second coil is capable of being switched under being connected to a second pole of the direct current power source. The second PWM control is performed by switching a first connected condition and a second connected condition by turns. The first connected condition is established with the first power supply terminal connected to the first pole and the second power supply terminal connected to the second pole. The second connected condition is established with the first power supply terminal being connected to the second pole and the second power supply terminal being connected to the first pole.